

THE EASTERN IOWA DX'ER

WINTER 1991

NEWSLETTER OF THE EASTERN IOWA DX ASSOCIATION

Officers:

Glen Kesselring, KOJGH, President John Lenahan, KORW, V.P. Gary Ernst, KOGVB, Sec./Treas.

The Winter meeting of the EIDXA will be held Friday January 25th, 1991, 7:30 PM at the REC building in Marion (corner of 35th St. and 10th Ave.) A "DX" video is planed for the progam.

OPERATING EVENTS

Jan. 19-21 ARRL VHF Sweepstakes

Jan. 25-27 CQ WW 160M CW test

In.26-Fb.3 Novice Roundup

Feb. 16-17 ARRL DX CW Contest

Feb. 22-24 CO WW 160M SSB test

Mar. 2-3 ARRL DX SSB Contest

Mar. 30-31 CQ WW WPX SSB Contest

THANK YOU!

Let us not forget the debt that we all owe the outgoing officers of the FIXDA, for their time, their imagination and their efforts. Talk about a hard act to follow! So thank you Steve, NUOP, Tom, WBSZRL and Tom, NCOO!

FROM THE PRESIDENT

(Your Editor never did receive a written item for the newsletter so I made a telephone call and this is what was reported!) At o'dark-thirty last Friday, Glen, KOJGH, was found sitting

upright at his rig, his hand suspended above the keyer, his other on the transceiver dial. His face was duli and lifeless, failing to react to any outside stimulas. While a similar condition has occured several times in the past, this time it was unusual because he failed to react to a DX call. His YF called the local doctor who diagnoised his condition as "Rig-mortis", a catatonic state brought on by working "YA" and "ZA" Slims. At press time no further word is avaliable on his condition and it is only hoped he will be able to preside at the upcoming meeting! (Wonder if he will get an item to me next time?)

FROM THE V.P./EDITOR

You may have noticed an item in the "operating events" that has not been seen in years past, like the Novice Roundup. This is an event I have participated in for as many years as I can remember! This is an opportunity for you to "remember your roots" and give a Novice some help in his contest with a "good fist" at a reasonable speed! I have received many "thank you's" from Novice/Technician ops and the regular disbeleif that anyone with an Extra class call would take the time! Yes, it is hard to "slow down" but its worth the effort. Spend just one night, enjoy yourself and help a fellow contester!

Sunspot Maximum Yet?

The January 1991 issue of Sky & Telescope magazine has an interesting article entitled. "Did Sunspot Maximum Occur in 1989?" written by solar physicist Patrick McIntosh of NOAA Space Environment Laboratory, Colorado. Boulder According McIntosh, "Solar maximum lasts about four years, during which the monthly sunspot-number index can soar at any time. Attempts to predict the exact time of sunspot maximum, therefore, may be futile. For example, rather than forcasting the peak of Cycle 22 to occur in March of 1990, a better approach would have simply placed maximum somewhere between December, 1988 and December 1992. with the highest monthly sunspot number most likely in the first helf of that interval." He explains that it is difficult, if not impossible, to be more specific due in part to "the inherent variability of the Sun itself" and the lack of a "reliable sunspot database [which | includes only a dozen complete cycles". McIntosh concluses as follows. "A century or more in the future, the accumulated observations of sunspots and other solar indexes may also give sufficient data for effective, emperical forcasts. Until then, the prediction of sunspot cycles will continue to be more an art than a science."

New Codeless Class License
ARRL Builetin 54 "FCC announced on
December 13, that new Technician
Class license applicants will not have to

demonstrate Morse code proficiency in order to have privileges above 30 MHz. Implementation is expected by February, 1991. The codeless Technician written exam will have 55 questions." (the present exam has 30)

FUTURE SHOCK! BY W3BRZ

Via packet from WBSZRL DECEMBER 1, 2001, NEW OPERATORS LICENSE ANNOUNCED TODAY! The ARRL and FCC have announced that a new Amateur License will be available this summer. The new "Operators Class" license will replace the existing Extra Advanced, General, Technician, and Novice class license. No code will be required or necessary under the new license, and, further, since knowledge of electronics has been found to be old fashioned and antiquated, no written exam will be given. This is in complete agreement with the Leauge, whose Board of Directors, at last months meeting, rendered an agreement stating that the present written exam, consiting of ten true false questions was much to dificult for the average Ham-to-be! FCC has also announced that this new license will help to increase the Amateur ranks from its present all time low of 5.5 million and to promote more intellegent technicians engineersa for the Amateru Radio community! The new operators license will be packaged with each "new" amateur transceiver and will contain a number/letter group that will be suitable for a call-sign. Those amateurs already licensed be (continued)

(FUTURE SHOCK continued)

"grandfathered" and required to use the letter "K" or "W" followed by their ZIP code to represent their callsigns. It is hoped that this new move by the Commission and ARRL will increase the number of amateurs to overflowing and allow each American a "fair" chance to become a Ham. Sources at Headquarters have learned that the Commission is planing a medical exemption for all those unable to fill out their new form! Furthere information in Fabruary 2001 OST.

MINUTES, DCT. 1990 MEETING

The meeting was called to order at 19:31. After introduction of members and quests, committee reports were given. There was a discussion lead by N4RR on his packet cluster node. WASTIH discussed possibility of a digipeater/node in the Muscatine area and WGSR reported on the DXAC news. NFOAD was approved for membership. Then the election of officers. KOJGH and KORW were nominated for president, KOJGH was elected, KDRW and WBOZKG were nomi nated vice-president, KORW was elected. KOGVB was nominated secretary/treasurer and ran unapposed and was declared elected. The meeting adjourned at 21:25. The following were in attendance for the October 1990 meeting of the EIDXA. KOGT, KOYZR, N4RR. WDDAWL, WDMJN, NBOH, KCOQ, WOIZ, WADFYG, NGOW, WOWP, WKOI, WEOU, KORW, KOJGH, KOGYB, WOPPF, KEDY, K9UQI*, N9OK*, NOEL*, NOICI, KDORT, KOVM, NYOY, WROU*, WBOB, AAOCB, KADCWR, WBOZKG, KOAL, WASTIH*, WOSR, WBBZRL, NCOD, NUOP. *=quest.

TREASURERS REPORT

As of January 1, 1991

\$ 540.80
\$ 160.00
\$ 11.18
-\$ 5.00
\$781.98
\$ 5.00
\$40.00
\$49.90

NOSM 160M MULTI-OP (Contesting from the Cabin)

NOSM reports 1407 DSDs and 78 multipliers for a total of 109,746 points as the multi-op effort for the 1990 ARRL meter contest. Some of those participating/operating were: Steve, NOSM - host, John, NROE - keeper of the fire. Glen, KOJGH - entertainment committee, NOICI, Grant - in charge of Glen (impossible task!), John, KORW - in charge of "forced air" and asst. to the fire keeper, George, WEDU - the "super duper!" and Jim, "I think I overslept". NOJL. For those of you not in the know, this is the premier annual operating event of rural Davis county and is attended by only the best operators in southeast lowa (mostly!). Overall, a great reason to lose a nights sleep!

WWV Solar Information

The following "Appendix" pages were supplied by Tom. NCOO. I think they may answer some questions about the WWV solar information avaliable at 18 minutes after the hour every day!

Appendix B

Geophysical Alert Announcements

The following is the voice message format for geophysical alerts on

() The Boulder K-Index at 1800 UT on (day) was (value) (X) Repeat, solar flux. _ and A-Index

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- () The Boulder K-Index at 0000 UT on repeat, (value) SEM
- () The Boulder K-Index at 0600 UT on _ repeat, _ repeat, _ SPM
- () The Boulder K-Index at 1200 UT on SEW.
- B. Solar-terrestrial conditions for the last 24 hours follow: (Includes any of the following.) , repeat, .
- (X) Solar activity was (very low) (low) (moderate) (high) (very
- (X) Geomagnetic field was (quiet) (unsettled) (active)
- 'n'n () A (minor) (major) geomagnetic storm (began at -UT) (is in progress) (ended at -
- () A major flare occurred at (day hour UT) (coordinates)
- yn 🏝 A proton flare occurred at (day - hour UT) (coordinates)
- A satellite proton event (began at ... _ UT) (is in
- A polar cap absorption event (began at ____ progress) (ended at _ | UT) (is
- \circ 8. () Stratwarm (alert - days(s)) (in progress) (ended - days)
 The forecast for the next 24 hours follows: (includes any of the in progress) (ended at _
- following.) (X) Solar activity will be (very low) (low) (moderate) (high) (very high)
- در س (X) The geomagentic field will be (quiet) (unsettled) (active)
- () A geomagnetic storm is expected (days approx. time
-) A proton event is expected (days approx. time UT)
- () Stratwarm (alert days(s)) (in progress) (ended days)

(brief description of conditions)

for the WWV Voice Message Geophysical Alerts Glossary of Terms

A.1. Solar, Flux: Radio flux in flux units (10-22Wm-2Hz-1) at 10 cm radio observatory, operated by the Canadian National Research (2800 MHz) at local noon (1700 GMT); observed at the Algonquin Counsel, Ottawa.

Fredericksburg, Virginia (a midlatitude station). rent GMT day). The A-Index reported is that observed at netic field has been over a 24-hour period (in this case, the cur-K-indices and gives an indication of how disturbed the geomag-A-Index: The A-Index is derived from eight successive 3-hourly

K-Index: The K value is a quasi-logarithmic index of geomagnetic the geomagnetic field. The Kaladex reported is that observed at disturbed). It is obtained by determining the maximum deviation activity over a 3-hour period ranging from 0 (very quiet) to 9 (very Boulder, Colorado. from the quiet day curve of the most disturbed component of

B.1. Solar Activity:

more than five of these; fewer than ten class C subflares withbance (SID) observed or expected. out centimetric radio bursts or Sudden lonospheric Distur-Very Low: Usually only quiet regions on the solar disk and no

bursts or SID observed or expected the solar disk; only class C subflares without centimetric radio Low: Usually more than five, but less than ten, quiet regions on

class M x-ray events with centimetric radio bursts and SID Moderate: Eruptive regions on the solar disk; fewer than five observed or expected.

events observed or expected. one or two importance 2 chromospheric flares or class X x-ray events with centimetric radio bursts and strong SID; and/or High: Active regions on the solar disk; several class M x-ray

greater), class X x-ray bursts, and major SID observed or with outstanding centimetric radio bursts (500 flux units or one or more chromospheric flares of importance 2 or greater Very High: Region capable of producing protons on the sun

X-ray Events:

Class M — a solar x-ray burst with a peak flux at 1-8 Å greater than or equal to 10^{-5} but less than 10^{-4} Watts M^{-2} Class C — any solar x-ray burst with a peak flux of 1-8 $\,^{\circ}$ of less than 10-5 Watts M-2 Class X — a solar x-ray burst with a peak flux at 1-8 Å greater than or equal to 10^{-4} Watts M^{-2}

B.2. Geomagnetic Field:

Quiet: Λ -Index ≤ 7 ; usually no K-indices > 2Unsettled: $7 < \Lambda$ -Index < 15; usually no K-indices > 3Active: $15 \le A$ -Index < 30; a few K-indices of 4

B.3. Geomagnetic Storm:

Minor: $30 \le A$ -Index < 50; K-indices mostly 4 and 5 Major: A-Index ≥ 50; solar K-indices of 6 or greater

- B.4. Major Solar Flare: A flare of optical importance ≥ 28 with a event of duration ≥ 180 minutes regardless of optical flare centimetric radio burst of 500 flux units or more; or an X x-ray importance.
- B.5. Proton Flare: Protons by satellite detectors (or polar cap absorption by riometer) have been observed in time association with a chromospheric flare.
- B.6. Satellite Proton Event: A proton enhancement detected by earth orbiting satellites with a measure flux of at least 10 protons cm²S⁻¹ ster⁻¹ at \geq 10 MeV.
- B.7. Polar Cap Absorption: A proton induced absorption ≥ 2 dB during daylight, or ≥ 0.5 dB during nighttime as measured by a 30-MHz riometer located within the polar cap.
- B.8. Stratwarm: A major disturbance of the winter, polar, middle atmosphere resulting from a breakdown of the polar vortex (a cells. These disturbances produce strong hf absorption for transpolar transmission paths. polar nighttime jet stream flowing around the polar cap) into two

Appendix C

Time and Frequency Standard Services Sources for Information Regarding

WWVH are available from the following sources: and OMEGA System Status Reports that are available on WWV and Information relating to the geophysical alerts, marine storm warnings,

Geophysical Alerts:

Space Environment Laboratory Boulder, Colorado 80302 National Oceanic & Atmospheric Admn Space Environment Services Center, R43

Marine Storm Warnings:

Director Silver Spring, Maryland 20910 National Weather Service

Omega System Status Reports: (G-ONSOD/43) US Coast Guard HQ

Washington, D.C. 20590

be obtained from: Publications which describe the NBS time and frequency services may

Division 524.06 National Bureau of Standards Boulder, Colorado 80303

- You can request that you be placed on the mailing list for: 1. NBS Time & Frequency Bulletin -- issued monthly.
- Special bulletins regarding changes in format or operating schedwhen appropriate. ules of NBS services, notices of upcoming events, etc - issued
- Technical notes and other publications of the Time & Frequency Dissemination Group — issued when published

trequency dissemination services. ing Office number 1979-681-991) which describes the NBS time and Also available is NBS Special Publication 432 (U.S. Government Print-

Six Phases of a Project

1. Enthusiasm

2. Disillusionment

3. Panic

4. Search for the Guilty

5. Punishment of the Innocent

6, Praise and Honors for the Non-participants

town

st zip phonehome

phonew

F2-06-1990 AT 15:11 Page 1

call statu p name

address

mailsta ork. FULL N Nelson Moyer 28 Ealing Dr. lowa City, Ia 52246 319-351-8775 home 319-335-4500 work (FOAD FULL N Pat Wilcox 3122 Sue Lane NV Cedar Rapids, la 52405 319-396-5232 home KOAL FULL Y Al Culbert 1218 Dakland Rd NE Unit 'C' Cedar Rapids, la 52402 #DOAWL FULL Y Terry Cellman 703 Lincoln St. Ainsworth, Ia 52201 319-657-3681 home 319-648-2891 work FULL Y Larry J. Newby P.O. Box 185 Vest Burlington, Ia 52655 319-752-8700 home 319-754-4692 work ∌B0B FULL N Lee L. NcKee 1820 Briarwood Lane Muscatine, la 52761 319-263-0398 home WORK K200 FULL N Jin Bohnsark 1969 Rainbow Dr. Vaierloo, Ia 50701 319-233-7189 home AAOCS ASSUC Y Jeff Barker Box 325 Toledo, Ia 52342 KAOCUR ASSOC Y Mary Dennis 400 E. Vine Toledo, Ia 52342 515-484-4837 home WOEJ FULL N Wade Walstrom 7431 Macon Orive NE Cedar Rapids, la 52401 319-393-8982 home 124-115 ms WAOFYG ASSOC Y Rick Hadley 115 Scenic Dr. Vinton Ia 52349 FULL Y Gazy Toomsen 2730 Tower Dr. Cedar Rapids, la 52401 319-395-9329 home 137-122 ms KOGVB FULL N Gary Ernst RR 2 West Branch, Ia 52358 319-643-2287 home FULL N Jim Harvey 819 N. Main St. Goldfield, la 50542 515-825-3323 home KJOH - ASSEC N John Schwandke 1406 M. Narion Washington, Ia 52353-319-653-3606 home 319-653-2113 work FULL Y Jack Muckler 2004 Easiern Blvd, SE Cedar Rapids, Ia 52403 319-362-3462 home NBOH NOHNJ ASSDC N David Corio 38 Leisure Blvd. NE Cedar Rapids, la 52402 319-395-7973 home 319-395-0462 work UK01 FULL Y Terry Parker 535 Sierra Dr Burlington, Ia 52601 319-753-1557 home 319-753-8591 work NOICI FULL Y Grant Kesselring RR #7 Box 150 Ottunva, 1a 52501 515-934-5320 home KOIIR FULL N Clark Pantel 1610 Hershey Ave. Muscatine, Ta 52761 319-263-9150 home 319-263-6141 work KOINR ASSBC N Tom Taylor RR 1 Shell Rock, Ja 50670 319-885-4400 home 319-236-1500 work 9017 FULL Y Dala Repp 1618 Texas Ave. NE Cedar Rapids, Ia 52402 319-393-6724 home NOJCM ASSOC N John Mayer 500 37th Ave N Clinton, Ia 52732 319-243-2414 hose 319-244-2389 work KOJOH FULL Y Glen Kesselrino RR 87 Box 160 Dttumwa, Ta 52501 515-934-5320 home ASON ASSOC N Vern Lang 110 E. 2nd St. Muscatine, Ta 52761 319-263-2697 home 319-263-5041 work 9EON ASSOC N Tom Gordon 6904 Brentwood Dr. NE Cedar Rapids, la 52402 319-373-0757 home 319-851-7219 work WOMJN ASSOC Y Joe Finkstein 2210 Empire St. Marion, La 52302 319-377-6573 home 319-395-2294 work 106-124 ms NKON FULL N Orville Duecker 226 Southcrest Waterloo, Ia 50702 319-296-2390 home 319-233-3569 work ASSOC N Jim Livengood R.R. 1, Ferre's Lane Burlington, In 52601 319-752-9310 home 319-752-2701 work WANIH INACT Y Bob Hill 2037 SW 61st Ave, Miami FL 33155 FULL Y Ton Hise PO Box 104 Shellsburg, Pla 52332 319-436-7786 home 124-115 ms NCOO ... NUOR. FULL. Y Steve White 5820 Sanden Rd. NE Cedar Rapids, Ia 52401 319-393-4547 home 319-395-4641 work 153-260 ms #OPPF FULL Y George Carsner 411 Terrace Rd. Iowa City, Ia 52245 319-338-1601 home 319-351-5033 work ECOQ FULL Y Jeff Russell 2025 Linear Or. NE Cedar Rapids, Ia 52402 319-363-4139 hone 319-395-4664 work 124-201 as KKOR ASSOC N Bob Tillman P.O. Box 1 Eldora, Ta 50627 NARR FULL Y Roger Hoffman 17215 Timber Drive Sterling, II 61081 815-625-6547 home KDORT FULL Y Brad Farrell | 401 Greenwood Dr. Ottumwa, Ia 52501 515-684-7768 home 515-682-4535 work FULL Y John Lenaham 923 N. 9th St. Burlington, Ia 52601 319-753-6883 home 319-752-2731 work KORU FULL N Steve Miller Route 6 Box 180 Ottumva, la 52501 515-684-4753 home NOSH VOSML ASSOC N Doug Byal 4431 Deer View Rd, NE Cedar Rapids, Ia 52402 319-393-2974 home 319-395-4283 work 153-200 ms FULL Y Jim Spencer 3712 Tanager Dr. NE Cedar Rapids, Ia 52402 319-393-7353 home 319-395-2305 work 124-115 ms VOSR KBOSY FULL N Rick Cordle 515 20th St. SE Mason City, Ia 50401 515-424-1535 home KKOU FULL N Paul Feddersen 703 Eclipse Lane Clinton, Ia 52732 319-242-9910 home 319-242-6214 work FULL Y George Gruenther 1106 S. Leebrick Burlington, Ia 52601 319-753-1461 hone 319-753-6253 work MEOU KOUYH FULL N Timethy Allan 732 Wildwood Rd. Waterloo, la 50702 319-234-4215 home 319-292-8796 work WOUZ ASSBC N John Nelson 3109 Terry Dr. SE Cedar Rapids, Ia 52403 319-365-4432 home FULL Y Tom Vinson 10211 Hall Road NE Cedar Rapids, Ia 52401 319-393-8087 home 120-105 ms MYOV ASSOC Y A1 Groff 1446 Council St. NE Cedar Rapids, Ia 52402 319-393-8134 home 319-395-4666 work 124-211 ms KOVH KOVZR FULL Y Tom White RR#2 Jesup, Ia 50648 319-827-6738 home 319-334-7166 work ASSOC Y Keith Erickson 1810 Hillside Dr. NV Cedar Rapids, Ta 52405 319-396-8510 home 319-398-3551 work HGOU FULL Y Tom Lindgren 1260 13th Ave. Marion, Ta 52302 319-377-4279 home 319-395-1953 work 107-110 as ₩0₩P KEOY FULL Y Tom Kramer 905 LeRoy Huscatine, Ia 52761 319-264-3259 home KFOZ FULL N Jan Clute 320 College Blvd. Mount Vernon, la 52314 319-895-6635 home 319-927-2143 work WBOZKG FULL Y Churk Dennis 400 E. Vine Toledo, Ia 52342 515-484-4837 home WB8ZRL FULL Y Tom Vavra 682 Palisades Access Rd. Ely, Ia 52227 319-848-7604 home

From the DX "Sheets"

Afghanistan - YA, YAORR, Expected until January 20th, QSL Romeo Stepanenko, Box 812 Sofia 1000, Bulgaria, Send donations to NT2I. There has also been a rumor that Jacky, F2CW will be in Afghanistan with the French Red Cross later.

San Felix - XQOX. A regular on the 14.160, 14.236 and 14.222 nets as well as some "free-lance" operation. This one is easy on the nets. Making the list is another matter!

Madagascar - 5R. A source close to the ARRL tells on one of the DX nets that a copy of 5R8GN license is soon to be on the DXCC desk! A 5R that will pass

muster at ARRL HQ!?!

HELP!

I need it! I know we are all busy, but surely you have something that belongs on the pages of this newsletter next time! I certainly am thankful for much of what was provided for this months newsletter. This is your newsletter. I don't want to have to make stuff up, but if I have to I will, and everyone is fair game! After all. Glen got Rig-mortis, this month!

GOOD DXING IN 1991!

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